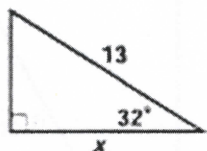


Name: _____ Date: _____ Period: _____

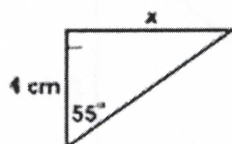
Part Three: Missing side using Trigonometry

Directions: Solve for the missing side using trig.

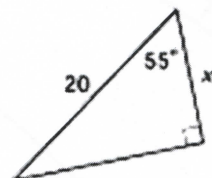
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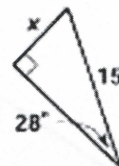
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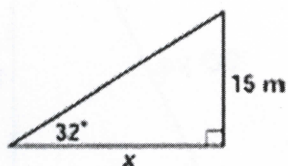
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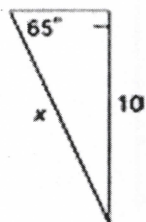
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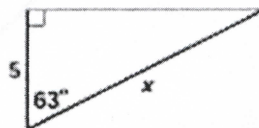
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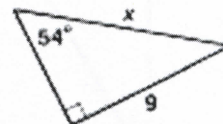
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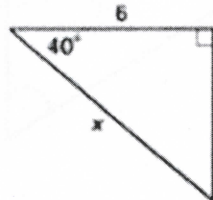
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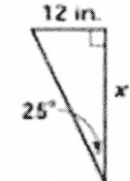
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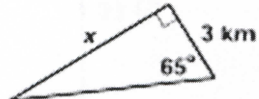
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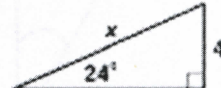
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11.



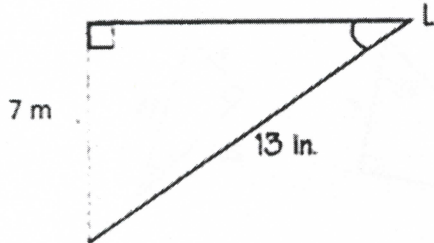
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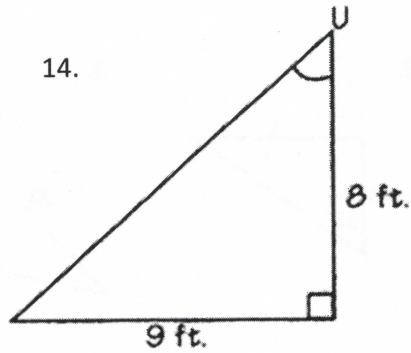
Part Four: Missing Angle using Trigonometry.

Directions: Find the missing angle using trig.

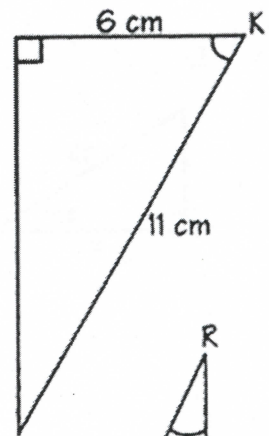
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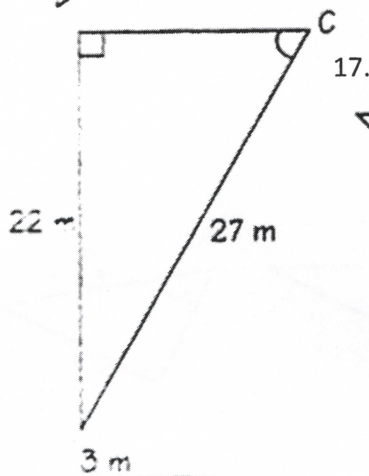
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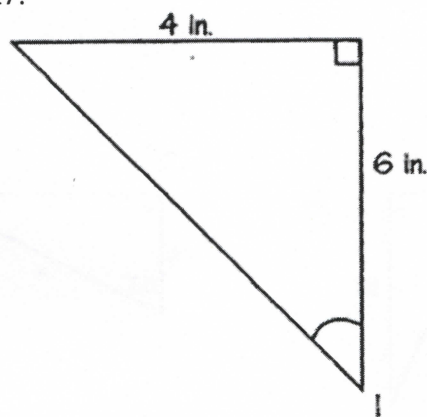
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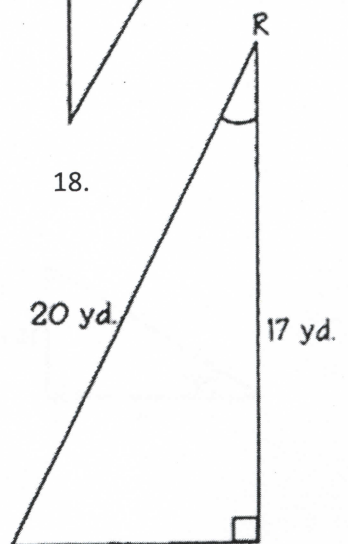
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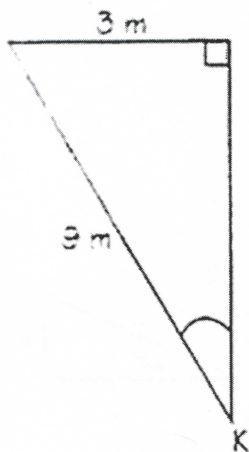
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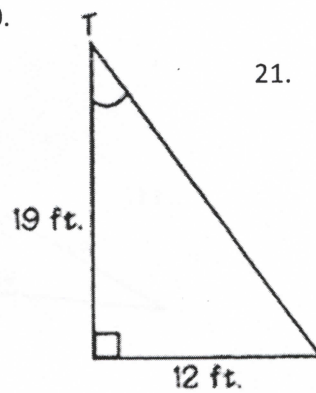
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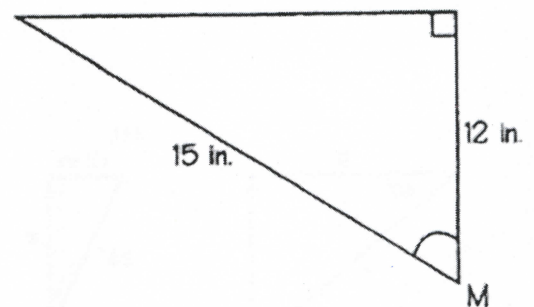
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20.



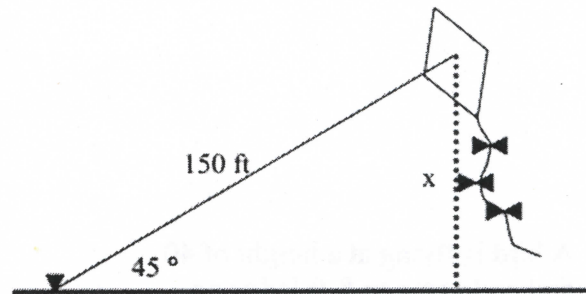
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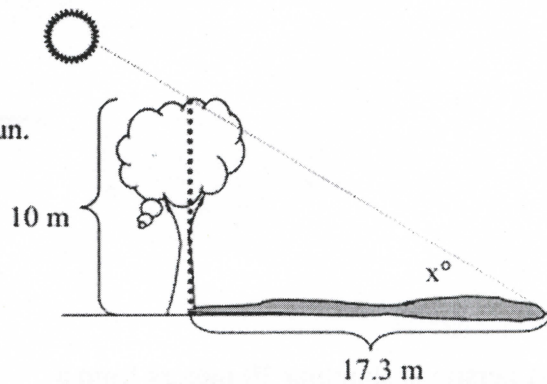
Part Five: Angle of Depression and Elevation

Directions: Solve for the missing angle or side.

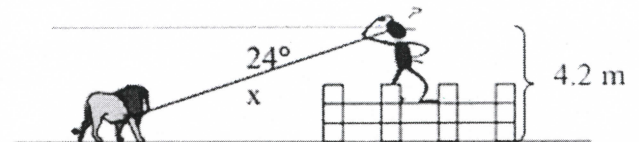
- 1) A kite with a string 150 feet long makes an angle of 45° with the ground. Assuming the string is straight, how high is the kite?



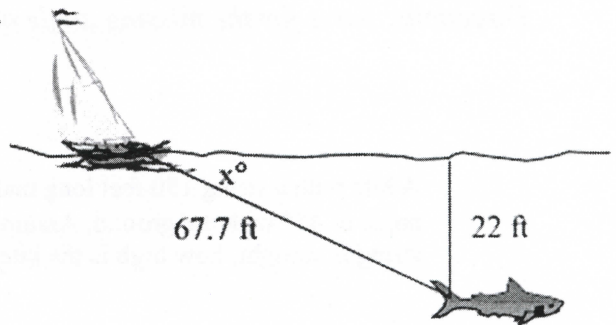
- 2) A tree 10 meters high casts a 17.3 meter shadow. Find the angle of elevation of the sun.



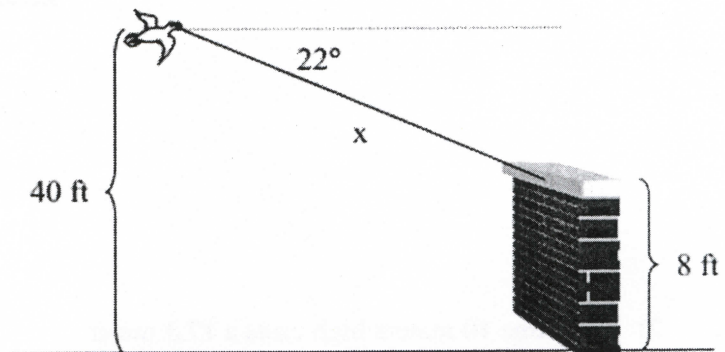
- 3) From the top of a fence, a person sites a lion on the ground at an angle of depression of 24° . If the man and the fence is 4.2 meters high, how far is the man from the lion?



- 4) A great white shark swims 22 feet below sea level. If the shark is 67.7 feet from the sailboat, what is the angle of depression of the boat to the shark?



- 5) A bird is flying at a height of 40 feet and spots an 8-ft ledge on which to perch. If the top of the ledge is at a 22° angle of depression from the bird, how far must the bird fly before it can land? (Careful!)



- 9) A person is standing 30 meters from a traffic light. If the angle of elevation from the person's feet to the top of the traffic light is 25° , find the height of the traffic light.

